

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

INFORMATION DISCLOSURE STATEMENTIn re Application of: Stephen H. Foulger et al.Attorney Docket No.: CXU-343Serial No.: Not yet knownDate: November 30, 2001Filed: Herewith (November 30, 2001)Art Unit: Not yet knownConfirmation No.: Not yet assignedOur Account No.: 04-1403Title: Chemical Compositions Comprising
Crystalline Colloidal Arrays

5-6-02
 JCS18 US PRO
 09/998922
 11/30/01

Commissioner for Patents
 U.S. Patent and Trademark Office
 Washington, D.C. 20231

Sir:

The following is an Information Disclosure Statement for the captioned patent application, pursuant to 37 CFR Sections 1.56, 1.97, and 1.98.

1.[x] Attached hereto is:

- a.[x] A list of materials for consideration per Rule 98(a)(1): 4 page(s)
- b.[x] A legible copy of each patent, publication, or other item listed per Rule 98(1)(2), unless not required per Rule 98(c) and/or (d) and as indicated on the attached list(s):
30 item(s)
- c. [] For each non-English language item listed, pursuant to Rule 98(a)(3), a concise explanation of the relevance thereof as it is presently understood by the individual designated in Rule 56(c) most knowledgeable about the content of such items: _____

[] Such explanation is provided in the Search Report from a corresponding application enclosed herewith along with any enclosed translation into English.

2.[x] This Information Disclosure Statement is being filed [CHECK ONE]:

- a.[x] WITHIN THREE MONTHS of the application filing date or national stage date of entry OR BEFORE the mailing date of a first Office Action on the merits, which ever event occurs last, WHEREFORE per Rule 97(b) NO filing fee or Rule 97(e) certificate is required.
- b. [] AFTER the time periods of section 2.a above, but BEFORE a Final Action, Notice of Allowance OR an action that otherwise closes prosecution, WHEREFORE PER Rule 97(c) submitted herewith is [CHECK ONE]:
 - i. [] Certification per Rule 97(e); OR
 - ii. [] Filing Fee per Rule 17(p)\$180.00
- c. [] AFTER a Final Action OR Notice of Allowance, but BEFORE payment of the issue fee, WHEREFORE per Rule 97(d) submitted herewith is:
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3. [] Rule 97(e) Certification; per Rule 97(e), the undersigned certifying party make the following certification statement [CHECK ONE]:

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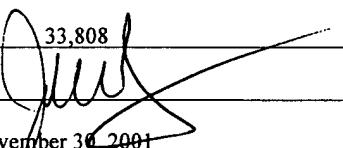
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Date: November 30, 2001

(Rev. 5/92)		Attorney Docket Number	Serial Number
Information Disclosure Statement List		CXU-343	Not yet known
By Applicant		Applicant	
Under 37 CFR Section 1.98(a)(1)		Stephen H. Foulger et al.	
(Use several sheets if necessary)		Filing Date : 12/1/00	Group
		Confirmation No. Not known	Not known

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(3) Both reasons (1) and (2) apply
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U.S. PATENT DOCUMENTS

EXAMINER INITIALS	PATENTEE NAME	PATENT NUMBER								ISSUE DATE	COPY NOTE
	Loisequx et al.	4	4	5	1	4	1	2		5/29/1984	
	Asher	4	6	2	7	6	8	9		12/9/1986	
	Asher	4	6	3	2	5	1	7		12/30/1986	
	Lawandy	4	8	0	3	6	8	8		2/7/1989	
	Alvarez	5	1	3	1	7	3	6		7/21/1992	
	Nair et al.	5	1	3	3	9	9	2		7/28/1992	
	Haacke et al.	5	2	6	6	2	3	8		11/30/1993	
	Haacke et al.	5	3	6	8	7	8	1		11/29/1994	
	Kobayashi et al.	5	6	6	5	2	7	5		9/9/1997	
	Asher	5	7	3	7	1	0	2		4/7/1998	
	Asher et al.	6	0	0	1	2	5	1		12/14/1999	
	Asher et al.	6	0	1	4	2	4	6		1/11/2000	
	Darrow et al.	6	2	0	1	9	8	0		3/13/2001	

FOREIGN PATENT DOCUMENTS

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EXAMINER INITIALS	OTHER DOCUMENTS			COPY NOTE
	Specify author (if any), Title, Pertinent Pages, Date & Place of Publication			
	FOULGER, Stephen H. et al., Robust polymer colloidal crystal photonic bandgap structures, pgs. 1300-1302, OPTIC LETTERS, Vol. 25, No. 17.		Optical Society of America, September 1, 2000.	
	XIA, Younan et al., Monodispersed Colloidal Spheres: Old Materials with New Applications, pgs. 693-713.		Advanced Materials, 12, No. 10, 2000.	
EXAMINER	DATE CONSIDERED			
Examiner:	initial if citation considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include a copy of this form with the next communication to applicant.			

<p>(Rev. 5/92)</p> <p>Information Disclosure Statement List</p> <p>By Applicant</p> <p>Under 37 CFR Section 1.98(a)(1)</p> <p>(Use several sheets if necessary)</p>	Attorney Docket Number	Serial Number
	CXU-343	Not yet known
	Applicant	Stephen H. Foulger et al.
	Filing Date : 12/1/00 Confirmation No. Not known	Group Not known

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EXAMINER INITIALS		OTHER DOCUMENTS Specify author (if any), Title, Pertinent Pages, Date & Place of Publication		COPY NOTE
		ASHER, Sanford A. et al., Mesoscopically Periodic Photonic-Crystal Materials for Linear and Nonlinear Optics and Chemical Sensing, pgs. 44-50.	MRS BULLETIN, October 1998.	
		WEISSMAN, Jesse M. et al., Thermally Switchable Periodicities and Diffraction from Mesoscopically Ordered Materials, pgs. 959-960.	Science, New Series, Vol. 274, Issue 5289 (Nov. 8, 1996).	
		PAN, Guisheng et al., Nanosecond Switchable Polymerized Crystalline Colloidal Array Bragg Diffracting Materials, pgs. 6525-6530.	J. Am. Chem. Soc. 1998, 120.	
		ASHER, Sanford A. et al., Self-Assembly Motif for Creating Submicron Periodic Materials, Polymerized Crystalline Colloidal Arrays, pgs. 4997-4998.	J. Am. Chem. Soc. 1994, 116.	
EXAMINER		DATE CONSIDERED		
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EXAMINER INITIALS	OTHER DOCUMENTS Specify author (if any), Title, Pertinent Pages, Date & Place of Publication	COPY NOTE
	SUNKARA, H.B. et al., Lattice dynamics of colloidal crystals during photopolymerization of acrylic monomer matrix, pgs. 887-894.	JOURNAL OF MATERIALS SCIENCE, 33 (1998).
	JETHMALANI, Jagdish M. et al., Diffraction of Visible Light by Ordered Monodisperse Silica-Poly(methyl acrylate) Composite Films, pgs. 2138-2146.	Chemistry of Materials, Vol. 8, Number 8.
	JIANG, P. et al., Single-Crystal Colloidal Multipayers of Controlled Thickness, pgs. 2132-2140.	Chem. Mater. 1999, 11.
	CARLSON, Roger J. et al., Characterization of Optical Diffraction and Crystal Structure in Monodisperse Polystyrene Colloids, pgs. 297-304.	APPLIED SPECTROSCOPY, Vol. 38, No. 3, 1984.
	LIU, Lei et al., Crystalline Colloidal Array of Water Voids in Hydrogels: Direct Evidence for Entropic Trapping of Flexible Polymers, pgs. 4040-4046.	J. Am. Chem. Soc. 1999, 121.
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(Rev. 5/92) Information Disclosure Statement List By Applicant Under 37 CFR Section 1.98(a) (1) (Use several sheets if necessary)		Attorney Docket Number CXU-343	Serial Number Not yet known
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	RUNDQUIST, Paul A. et al., Dynamical Bragg diffraction from crystalline colloidal arrays, pgs. 4932-4941.	J. Chem. Phys., Vol. 91, No. 8, 15.
	REESE, Chad E. et al., Development of an Intelligent Polymerized Crystalline Colloidal Array Colorimetric Reagent, pgs. 5038-5042.	Analytical Chemistry, Vol. 73, No. 21, November 1, 2001.
	HOLTZ, John H. et al., Intelligent Polymerized Crystalline Colloidal Arrays: Novel Chemical Sensor Materials, pgs. 780-791.	Analystical Chemistry, Vol. 70, No. 4, February 15, 1998.
	JETHMALANI, Jagdish M. et al., Optical Diffraction from Silica-Poly(methyl methacrylate) Composite Films, pgs. 2633-2640.	Langmuir 1997, 13.
	JETHMALANI, Jagdish M. et al., Crystal Structures of Monodisperse Colloidal Silica in Poly(methyl acrylate) Films, pgs. 3338-3344.	Langmuir 1997, 13.
	PU, Zhengcai et al., Mechanical properties of a poly(methyl acrylate) nanocomposite containing regularly-arranged silica particles, pgs. 545-551.	Polymer Bulletin, Springer-Verlag 1996.
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